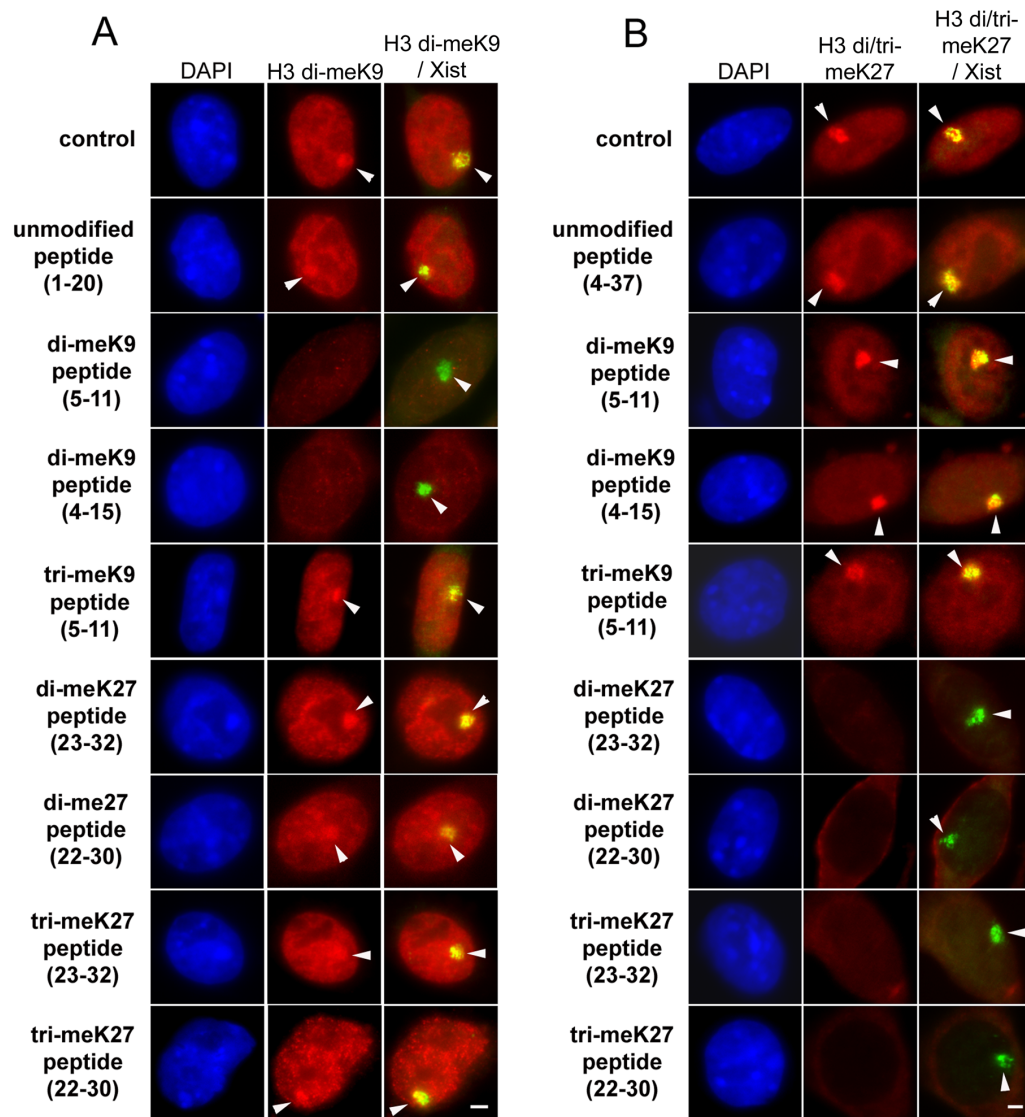


Supplementary Fig. S2



Legend to Figure S2:

Peptide competitions for H3 di-meK9 and H3 di/tri-meK27 in differentiating female ES cells (day 3). Representative immunofluorescence shows peptide competition for H3 di-meK9 (A) and H3 di/tri-meK27 (B) (second columns) combined with Xist RNA FISH (third columns). The competitions were performed by incubating antibodies with 100 to 500 µg/ml of peptide at RT, 20 min prior to incubation with the cells. H3 di-meK9 antibody is competed only by the two H3 di-meK9 peptides (note the absence of overall nuclear signal, particularly at the Xist RNA domain in

rows 3 and 4, compared to the other rows (arrowheads)) whereas H3 di/tri-meK27 antibody is competed only by the two di- and the two tri-me K27 peptides (compare rows 6, 7, 8 and 9 to the rest (arrowheads)). DNA is stained with DAPI (blue, column 1). The bar represents 5 μm in each case.